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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/446,888	12/30/1999	TOSHIYUKI FUTAKATA	6342-0039-2	3055	
22850 7590 11/26/2003			EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			KUMAR, PANKAJ		
1940 DUKE S ALEXANDR	IA, VA 22314		· ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Og/446,888 FUTAKATA ET AL.	· ' '								
Examiner	-		Applicati	on No.	Applicant(s)				
Parkag Kurmar Parkag Kurmar			09/446,8	88	FUTAKATA ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE g MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Eleganization of time mybe sevalation used to the provisions of 3° CFR 1.136(a). In one veril, however, may a reply be timely filled and set of the communication of 3° CFR 1.136(a). In one veril, however, may a reply be timely filled and set of the communication of 3° CFR 1.136(a). In one veril, however, may a reply be timely filled and set of the communication of 3° CFR 1.136(a). In one veril, however, may a reply be timely filled and set of verified period of the communication of 3° CFR 1.136(a). In one veril, however, may a reply be timely filled and set of verified period of the communication of the communication. Set 3° CFR 1.136(a). In one veril, however, may a reply be timely filled on the communication of the communication. Period of the communication of the communication. Period of the communication of the			Examine	Г	Art Unit				
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edeminate without mybe available under the provisions of 3 CFR 1.38(e), in no event, however, may a reply be timely filled Edeminate without mybe available under the provisions of 3 CFR 1.38(e), in no event, however, may a reply be timely filled If the period for reply specified shove is less than thing (30) days, a reply within the statistical period day of the period for reply specified shove is less than thing (30) days, a reply within the statistical period day of the period for reply will, but statistical period days byth will be given for filling (40) days, a reply within the statistic period day of the period for reply will, but statistical period days and will depend any filling (40) days, a reply within the set of edered period for reply will, but statistically period will apply and will expire (40) (40) MINION (40) MI			ation appears on th	e cover sheet with the	correspondence address	••			
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)	THE - Exter after - If the - If NO - Failu - Any rearned	MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commur period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply within the set or extend	ATION. 37 CFR 1.136(a). In no evidence in the state of t	vent, however, may a reply be t tutory minimum of thirty (30) de vill expire SIX (6) MONTHS froi plication to become ABANDON	imely filed ys will be considered timely. In the mailing date of this communic ED (35 U.S.C. § 133).	etion.			
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)			•						
	2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTC		5) Notice of Information		<u> </u>			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Response to Amendment

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato in view of Needham et al USPN 6,188,767.
- 4. As per claim 1, Sato teaches a spreading code assigning (Sato fig. 1: 110 is assigned a code number, col. 1 line 35 indicates 64 spread codes) method in a direct sequence CDMA mobile communication system (Sato col. 1 lines 12 to 21 "digital mobile phone ... using ... CDMA ...") for transmitting a signal (Sato fig. 1: output is to an antenna) after spreading said signal doubly (Sato fig. 1: 106, 108, 112) with a first spreading code in a first spreading code group (Sato fig. 1: 109, 110, bit rate, code number) and a second spreading code in a second spreading code group (Sato fig. 1: 114, base station code number), said first spreading code having the same repetition period as an information symbol period (Sato fig. 2: period of first spread code is the same as that of a repeated d1" or d1"), said second spreading code having a longer repetition period than the information symbol period (Sato fig. 2: period of second spread

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code is the same as that of a unrepeated d1" or d1'), said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal (inherent), a rate of said spreading codes being higher than an information rate (Sato fig. 2: in channel #2, rate of spreading code e2 is higher than d1' and rate of spreading code c2 is higher than d1'), ... to which said base station group belongs as said second spreading code (Sato fig. 1: base station code number is input into 114, col. 1).

- 5. Sato does not teach said method comprising the step of assigning a code associated with each base station group <u>including more than one base station</u> or a code associated with each network type.
- 6. Needham teaches said method comprising the step of assigning a code associated with each base station group including more than one base station or a code associated with each network type in fig. 4: 402; also fig. 6 element 609 and fig. 7 element 712 both having "generate longcode using talk group id".
- 7. It would have been obvious to one skilled in the art at the time of the invention to modify Sato to assign a code associated with each group or network type where the group includes more than one base station.
- 8. One would be motivated to do so for the reason taught in Needham in order to support a group call column 1 paragraphs 3, 4, 6.
- 9. As per claim 2, Sato teaches a signal transmitting method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second

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spreading code group, said first spreading code having the same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate, (discussed in claim 1 up to here) ... as said second spreading code (Sato fig. 1: base station code number is input into 114); and transmitting a signal (Sato fig. 1: output is to an antenna) which is spread with said second spreading code between a one of said more than one base station and a mobile station (Sato col. 1 lines 22 to 37: "... from base station to mobile station ..."). (also see above discussions)

- 10. Sato does not teach said method comprising the steps of assigning a code associated with each base station group <u>including more than one base station</u> or a code associated with each network type to which said base station group belongs.
- Needham teaches said method comprising the steps of assigning a code associated with each base station group <u>including more than one base station</u> or a code associated with each network type to which said base station group belongs in fig. 4: 402; also fig. 6 element 609 and fig. 7 element 712 both having "generate longcode using talk group id".
- 12. It would have been obvious to one skilled in the art at the time of the invention to modify Sato to assign a code associated with each group or network type where the group includes more than one base station.
- 13. One would be motivated to do so for the reason taught in Needham in order to support a group call column 1 paragraphs 3, 4, 6.

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- 14. As per claim 3, Sato teaches a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate, (discussed in claim 1 up to here). Sato also teaches in fig. 1 and col. 1 that the base station code number is input into 114; and a mobile station communicating with said base station by using a signal which is spread by said second spreading code assigned to said base station (Sato fig. 1: base station code number entering 114). (also see above discussions)
- 15. Sato does not teach said system comprising: a base station using said second spreading code assigned to each base station group or said second spreading code assigned to each network type to which said base station group belongs said base station group including more than one of said base station.
- 16. Needham teaches said system comprising: a base station using said second spreading code assigned to each base station group or said second spreading code assigned to each network type to which said base station group belongs said base station group including more than one of said base station in fig. 4: 402; also fig. 6 element 609 and fig. 7 element 712 both having "generate longcode using talk group id".

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17. It would have been obvious to one skilled in the art at the time of the invention to modify

Sato to assign a code associated with each group or network type where the group includes more

than one base station.

18. One would be motivated to do so for the reason taught in Needham – in order to support a

group call - column 1 paragraphs 3, 4, 6;

19. As per claims 4-6, they are discussed in respect to other claims above.

20. As per claim 7, Sato teaches the transmitter in the direct sequence CDMA mobile

communication system as claimed in claim 4, said transmitter comprising: second spreading

code control means (Sato fig. 1: 114 with its input) which generates (Sato fig. 1: 114) and

controls (Sato fig. 1: input into 114) said second spreading code (Sato fig. 1: output of 114)

associated with each base station group or each network type to which said base station group

belongs (Sato fig. 1: base station code number).

21. As per claim 8, Sato teaches the receiver in the direct sequence CDMA mobile

communication system as claimed in claim 5, said receiver comprising: second spreading code

control means which generates and controls said second spreading code associated with each

base station group or each network type to which said base station group belongs. (Discussed in

respect to other claims. See above discussions)

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22. As per claim 9, Sato teaches the transceiver in the direct sequence CDMA mobile communication system as claimed in claim 6, said transceiver comprising: second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

(Discussed in respect to other claims. See above discussions)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (703) 305-0194. The examiner can normally be reached on Mon, Tues, Wed and Thurs after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

PK